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## INTAF Polyglass Tape®

**INTAF POLYGLASS TAPE** is moisture resistant. It is manufactured from high tensile glass yarn laid parallel and bonded with specially formulated fully catalysed thermosetting polyester resin. It is not a woven tape and, therefore, utilises maximum tensile strength of the glass, resulting in a high tensile, high modulus, low elongation, high impact strength band.

**INTAF POLYGLASS TAPE** is in itself an insulation and requires no underlying insulation pad, thus eliminating insulation and creepage problems experienced in case of steel banding.

Supplied in the 'B' stage (semi-cured) forming a soft well-balanced flat ribbon and assuring that each yarn strand bears an equal share of the load.

In the 'B' stage the special resin formulas used insulate each glass yarn thereby preventing cutting and shearing while banding.

The thermosetting formulated resin is checked & re-checked and made to conform to rigorous standards in order to ensure long life and flawless service in electrical industry.

In the 'C' stage (completely cured) the glass band is formed into a hard, high tensile homogeneous mixture of glass and resin which is void free. This mass greatly improves heat dissipation factors.

During the cure cycle the resin contained in the tape flows and forms the bands into the homogeneous structure but the resin also flows and penetrates between coil openings etc., assisting in anchoring the coils against side movement and adding insulation between the coils greatly adding to the overall stability under all conditions.

These bands have very high arc resistance and attempt to induce flash over failures in 20 cycles have not been successful. However, steel bands consistently fail in two or three cycles.

**INTAF POLYGLASS TAPE** results in cooler coils than the steel bands system affords in many cases.

Calculated correctly and applied properly **INTAF POLYGLASS TAPE** shall not fail under continuous operating conditions of high humidity and acid fumes including temperatures in excess of 180 deg.C. Evidence indicates that these bands performed well while other insulation materials on underlying coils have burned and charred.

**INTAF POLYGLASS TAPE** has successfully replaced steel wire on all types of armatures including traction motors, large generators, transformer cores as also heavy duty motors.

Popular with winders because of its ease of application, elimination of underlying insulation and the removal of the hazard present in applying steel bands which may break and lash during the banding process.

**INTAF POLYGLASS TAPE** can be used in cold or hot banding processes. However, superior results are obtained while used in hot banding process.